

### ABSTRACT

A system and method to encrypt and decrypt data into highly secure forms, which uses common error correction hardware or algorithms to encipher data, with little or no impact on system cost or performance. The data encryption/decryption system allows a nearly limitless number of encryption keys to be used without compromising security, rather than encryption methods such as Data Encryption Standard (DES), which rely upon the difficulty in the factorization of keys based upon large prime numbers.

112222 222222